

#### **Load Frame Configuration:**

4 or 6 column, servo-controlled hydraulic

#### Capacity:

200kN, 300kN, 500kN, 600kN, 1000kN, 2000kN

## **Test Space:**

Dual zone (tension on top, compression on bottom)

#### Typical specimens:

Fasteners, rebar, chain, welds, castings

#### **Frame**

- Lead screw driven crosshead to adjust the test space
- High-Stiffness 6-column load frame design incorporates 3-position crosshead, adjustable specimen positioning, precision guide columns, thick crosshead and base beam minimizes load frame stored energy while producing reliable, stable, accurate load, strain and modulus values.



- 3. Ergonomically designed load frames ensure safety, reduce operator fatigue, and provide the highest level of flexibility.
- 4. Standard Dual Zone Test Space for reducing setup time
- 5. "Quick Return" hydraulic valve for higher throughput
- 6. Automatic limit checking for crosshead position, overload, over temperature, over voltage, etc.
- 7. The system can return automatically, the oil cylinder can return the original position via manual or automatically after finishing testing
- 8. Positive specimen holding is ensured by the wedge action of hydraulic operated grips
- 9. Imported encoder mounted on the seat is for position measurement of crosshead with high accuracy
- 10. Imported servo valve provides high stability and reliability

#### Load cell

- 1. Use strain gauge load cell technology to measure the force being applied to specimen. The load cell is located in the lower grip and is used to directly measure tensile force.
- 2. High precise load cell measures and captures sensitively tension and compression force, high accuracy load measurement resolution reaches 1/500000 with no steps.
- 3. Famous brand load cell ensures high precision and repeatability.

## Various frames to satisfy your test needs from low force to high force





## Full complement of test accessories

Extensive range of accessories to meet test requirements in almost any application or industry: rebar, fasteners, chain, welds, castings, concrete and other building materials

- Tension grip
- Compression fixture
- Flexure fixture
- Rock shear fixture
- Concrete split fixture
- Fastener tension grip
- Extensometer
- Automatic extensometer
- others



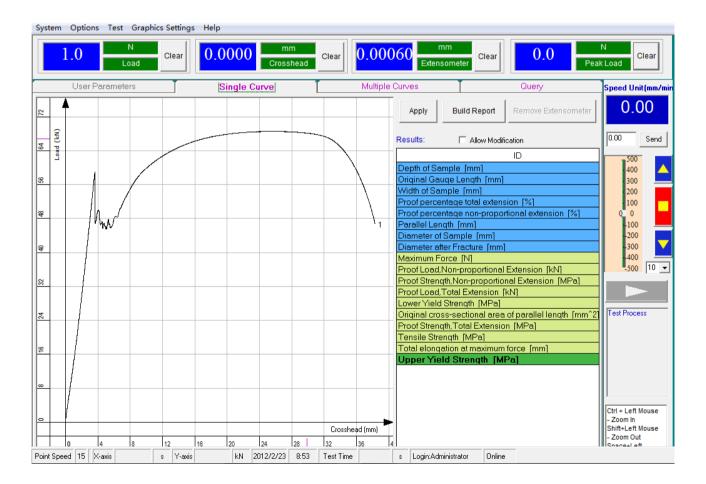
#### Powerful test software - TestPilot

#### -Two steps to start testing: select a project, press start

This software features a large, growing host of pre-packaged test methods to help you quickly and efficiently meet the requirements of global test standards such as ASTM, ISO, DIN, EN, BS, and more. Selected by an operator at runtime, these methods are crafted to meet the specific test flow, analysis and reporting requirements of industry

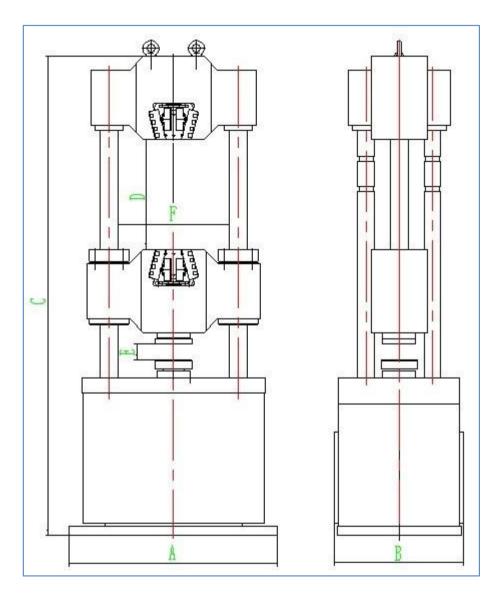
standards across a range of specimen and test types. Pre-packaged test methods are available in a wide selection of bundled sets, including: Polymers & Plastics, Metals, Construction Materials, Biomedical Products, Paper Products, Adhesives, foam, textiles and more.

- Versatile, easy-to-use TestPilot software with a large and growing library of standards-compliant test methods (ASTM, ISO, DIN, EN, BS, and more)
- Modular design permits easy upgrading
- > Plenty of test standards are built in the library of the software for routine tests.
- > User configured report: user can preset report template and include necessary information, like company information, statistics, and etc. Test report can export to Excel or Word.
- Powerful graphic function: real time display curves, like displacement-load, stress-strain, displacement-time, load-times, and others
- Powerful analysis function can calculate typical value and display on the curve, like Fm, ReL, ReH, Rp.
- Measurement unit: Users can select SI, or others, like N, kN, Kgf, lbf, Mpa, and so on, user can define the unit by themselves using formula.



# Frame dimensions

Model	Outside dimension	Tensile space	Compression space	Test width	Piston travel
	A×B×C (mm)	D (mm)	E (mm)	F (mm)	(mm)
HUT305A	820×570×1955	520	520	410	150
HUT605A	940×650×2400	710	700	435	250
HUT106A	1020×670×2600	750	660	450	250
HUT206A	1370×820×3300	900	750	730	250



Specifications:

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Model	HUT205 HUT305	HUT505 HUT605	HUT106	HUT206	
Туре	Type A				
Capacity (kN)	200 300	500 600	1000	2000	
Calibration accuracy	Class 1 / Class 0.5				
Force accuracy	Better than ±1%/±0.5%				
Force range	1% ~ 100%FS				
Resolution	1/50000FS				
Extension range	1% ~ 100%FS				
Extension accuracy	Better than ±1%/±0.5%				
Extension resolution	1/500000 of max extension				
Actuator (piston) stroke (mm)	150	250	250	250	
Actuator (piston) speed (mm/min)	0 ~ 180	0 ~ 140	0 ~ 90	0 ~ 70	
Middle crosshead speed (mm/min)  Only for test space adjustment	0 ~ 350	0 ~ 270	0 ~ 310	0 ~ 360	
Force loading speed	0.02% ~ 2% FS /s				
Column number	4	6	6	6	
Column spacing (test space width) (mm)	410	435	450	730	
Maximum tension space (mm)	520	710	750	900	
Maximum compression space (mm)	520	700	660	750	
Diameter of round specimens (mm)	Ф10 ~ Ф20 Ф20 ~ Ф32	Φ10 ~ Φ18 Φ18 ~ Φ29 Φ29 ~ Φ40	Φ15 ~ Φ30 Φ30 ~ Φ45 Φ45 ~ Φ55	Ф15 ~ Ф70	
Thickness of flat specimens (mm)	2 ~ 13 13 ~ 25	2 ~ 16 16 ~ 30	2 ~ 20 20 ~ 40	2 ~ 70	
Compression platens (mm)	Ф120	Ф150	200x200	Ф240	
Frame dimension (length × width × height) (mm)	820x570x1955	940x650x2400	1020x670x2600	1370×820×3150	
Hydraulic Power Unit dimension (length × width × height) (mm)	1150×600×900				
Hydraulic Power Unit weight (kg)	300				
HPU flow rate ( L/min)	3.5	5	5	7.2	
Power consumption (kw)	2.5	3.5	4	6	
Power supply	3-phase, 5-line, AC380V, 50Hz				
Frame weight (kg)	1500	2500	3500	6800	
Main cylinder hoses length	2.4m x 1	2.4m x 1	2.6m x 1	2.6m x 1	
Upper grip hoses length	3.6m x 2	4.0m x 2	4.2m x 2	4.6m x 2	
Lower grip hoses length	3.1m x 2	3.35m x 2	3.35m x 2	3.9m x 2	

## Standard configurations:

Name		Description	Quantity
	Load frame	Dual space, class 1	1 set
Main machine	Load cell	built-in the load frame	1 set
	Displacement encoder		1 set
	Motor and speed reducer		1 set
HPU	Oil tank		1 set
	Pump		1 set
	Servo Valve		1 set
	Valve manifold		1 set
	Cooling fan		1 set
	High pressure oil hoses		4 sets
0: 05:1	Compression fixture		1 pair
Grips & Fixtures	Hydraulic wedge action tensile grip		1 pair
Controller		Model: DTC-500	1 set
Software		Testpilot, English version	1 set
		inner hexagon spanner 1 set	
	Maintenance tools	Phillips screwdriver 1 set	1 set
		Open spanner 1 set	
Accessories	Operation & Maintenance manual		1 set
	Software manual		1 set
	Warranty card		1 set
	Quality Certificate		1 set

## Prepared by customer:

- ➤ The anti-wear hydraulic oil (N46, 75L) shall be purchased by customer at local market.
- > The foundation work must be finished before UTM delivered 14 days.
- Computer and printer should be prepared by customer

## **Shipping information**

Model	Crated dimension (mm)	Crated weight (kg)	
HUT205/HUT305	2230X1000X940	1500	
HUT505/HUT605	2610X1110X1040	2800	
HUT106	2900X1240X1130	3700	
HUT206	3520X1540X1400	7500	
HPU (hydraulic power unit)	1430X850X1180	380	



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